

'Airships will carry wast lenses that will concentrate the rays of the sun, withering and destroying everything beneath them.' earth, as described by H. G. Wells. These

The poison gun has been patented in the United States by Karl Wieser a German subject residing at Bre-dency, Germany. He states in his application that he has assigned his rights to the Krupp company.

paid to the humanitarian provisions

of The Hague Convention. It may be argued that the use of poisons was forbidden for the protection of civil-ians and neutrals, and that the pro-

vision does not apply to a gun throw-ing poisonous gases at the enemy's

The shell containing the polsonous gases is a great globe, which remains shaft attached to the globe enters the gun and separates from the globe when it is fired. The globe is said to be capable of suffocating a thousand men by the gases which it emits when it explodes. The technical description of the invention says:

"The object is, in the present invention, reached by giving the part of the shaft whereon the weight

slides a smaller dimension than that of the bore of the gun, and by supplying the shaft with an abutment or stop at the rear of this small diameter. which stop will conform with the di-ameter of the bore of the gun. And the smaller part of the shaft passes through a hole of the same diameter in the weight, so that, with the as sistance of centring faces on the weight and on the gun, the former will be in such a position that its axis will coincide with that of the bore of the gun." The invention is a three-piece de-

vice—the shaft, which goes into the bore of the gun; the shell, and a weight which is attached both to the shaft and the gun and joins them together. When the shaft is fired, the weight retards its progress, and through that means detaches itself and the shaft from the shell, which continues in its flight.

One great object of the military inventors is the direct use of the power of the sun for purposes of destruction. They are planning to furnish airships with lenses and mirrors, by means of which the sun's rays may be conceateated on the opponent's forts, magazines and encampments.

Imagine the effect of such a titanic force burning, withering, annihilating everything over which it passes! No gun can reach it, no defence is possible. Fortresses explode, cities burn up and men shrivel into nothingness. Such a triumph of destruction is an ancient dream of mankind, just

which were attacking Syracuse in 214 B. C. by turning the sun's rays on

These bombs will spread poisonous gases over an area of many

square miles, in which no human being can live."

Science is Now Creating Weapons Far More Deadly, That Will Annihilate Life Throughout Whole Countries in **Future**

"Never before in the history of warfare had there been a continuing explosive: indeed, up to the middle of the twentieth century the only explosives known were combustibles whose explosiveness was due entirely whose explosiveness was due entirely to their instantaneousness; and these atomic bombs which science burst upon the world that night were strange even to the men who used them. Those used by the Alies were lumps of pure carolinum, painted on the outside with unoxidized cydonator inducive enclosed hermetically in a case of membranium. A little colluloid stud between the handles by which the bomb was lifted was arranged so as to be easily torn off and admit air to the inducive, which at once became active and set up at once became active and set up radio-activity in the outer layer of the carolinum sphere. This liberated fresh inducive, and so in a few minutes the whole bomb was blazing con-tinual explosion.

Such was the crowning triumph of military science, the ultimate ex-plosive, that was to give the 'decisive

touch' to war. . . ."

It is certain that there are infinite powers of destruction in the wireless waves with which we are partly fa-millar. A wireless generating plant raised to several thousand times the power now employed will be able to destroy life and property at a dis-tance of a thousand miles or more.

Another novel implement of de-struction will be an enormous flywheel armed with scythe-like blades, which will cut down every human being in their path. Everybody fa-miliar with machinery knows the terrific power of a heavy flywheel motion. It is proposed that wheels shall be carried in large acro-planes and dirigible balloons. The cutting blades will be arranged at an angle so that they will increase the revolutions of the wheel as it falls through the air.

The man in the machine will drop the wheel over a force of the enemy and then, after gaining terrific momentum, it will go churning through their bodies with its long, curved knives. In this way a trench could be cleared of life or a whole encampment swept away.

All these methods of slaughter will, it is hoped, hasten the day when no nation will dare to go to war because it will threaten the very existence of the human race.

"Growing Pains" and "Tennis Elbow" Due to Decayed Teeth

the Martians would be counted outside

the pale of humanity.
Wells has suggested another scientific

weapon which would cause world-wide devastation and so make war impossible.

He assumes that we shall discover the secret of atomic energy, a force which we can see at work in radium. The atomic bomb releases the energy of matter and causes everything it touches to explode.

RECENT medical discoveries showing the close relationthe medium of germs and toxins flowing into the digestive tract from pus sacs in the diseased teeth and gums, are familiar to readers of this newspaper. The further medical science inquires into the matter the more it is inclined to attribute many other stubborn ills of the human body to the same cause-defective teeth and poison-discharging pustules These discoveries have added new terrors to pyorrhoea,

monstrous, octopus-like creatures controlled heat rays with which they withered and devastated everything that opposed them. They were not stopped until an earthly inventor infected them with disease microbas which they had

disease microbes which they had never known on Mars. This use of microbes, by

the way, would be contrary to the rules

of The Hague Convention, but probably

commonly called Rigg's Disease, in which the gums fall away from the roots of the teeth and the whole area becomes a breeding ground of germs seriously affecting the general health, owing to the impossibility of keeping them out of the stomach and intestines.

In an article contributed to the London Lancet, of recent date, the writer—a laboratory experimentor along these lines -attributes that mystery of childhood called "growing pains," to this same cause. These pains in the bones of the arms and legs, he explains, are always associated with an infected condition of the intestines, as is rheumatism. -strent occcei-which are responsible for this condition do not originale in the intestines, as formerly was the theory, but in the decayed teeth and diseased gums of the victim. "Growing pains" occur in cases where the physiological output of young people, to meet the tyrannical demands of growth, is at its highest. Their resistance to these germs is

therefore at its lowest. Stubborn pains in the bony structure are manifestations of those germ-toxins in the circulation.

It was natural that formerly this class of disturbances following the general acceptance of the germ theory of disease -should be attributed to the activity of germs originating in the intestines—the waste pipes of the body where all sorts of microbes and poisons are naturally expected to exist. Suspicion that this theory was erroneous grew out of the fact that sterilization of the entire alimentary canal only temporarily

alinyed rheumatic and other symptoms.

Experiments proved that these germs had a source higher up, and this source was finally discovered in the mouth that supplied a steady flow of them from tooth cavities and pus sacs in the gums. So it was useless to continue drastic antiseptic treatment of the intestines while the mouth kept up its supply of the poisonous material.

Among the many diseases for which bad teeth are now

aeld responsible are: Chronic inflamation of the pharynx, disease of the middle ear, mastoiditis, gastritis, gastric ulcor, anaemia, gout, neuritis, even "tennis elbow" and writers and telegraphers cramp. Medical reports show that "tennis elbow" disappeared when the fangs of a dead tooth were rendered aseptic.

The explanation is that the poisons generated in the digestive tract by these germs of dental origin set up chronic inflamation of the connective tissues between the bundles of nerve cells in the overworked area—just as they cause inflammations resulting in children's growing pains" when the child's nutritive processes are overworked to build up a larger

The disquieting feature of the whole matter is that teeth and gums which appear to be perfectly healthy yet may be breeders of this mischievous germ. On this tpoc the Lancet writer savs:

"Not once but many times recently I have found this or ganism about the fangs of teeth which, apparently sound, showed on extraction denuded periosteum and sepsis of the alveolar cavity communicating with pockets about the neck

"It is not, however, to this particular class of dental cases that I wish to draw the attention of your readers, but rather to a series of cases of less evident virulence which ought to be the study of every practitioner—those cases where it and about the tips of the teeth, themselves frequently healthy in appearance, often stopped or crowned, the streptococcus salivarius is actively secreting a toxin which it pours in a steady stream into the area around the fangs. This organism does not cause pus formation. It is found in small fibrous sacs attached to the periodontal membrane, and its action seems to be formative rather than destructive. The effects of its growth are shown wherever connective or fibrous tissues. are in a state of enhanced activity or where such structures have been injured or overstrained."

